

Fig. 1 Prior art

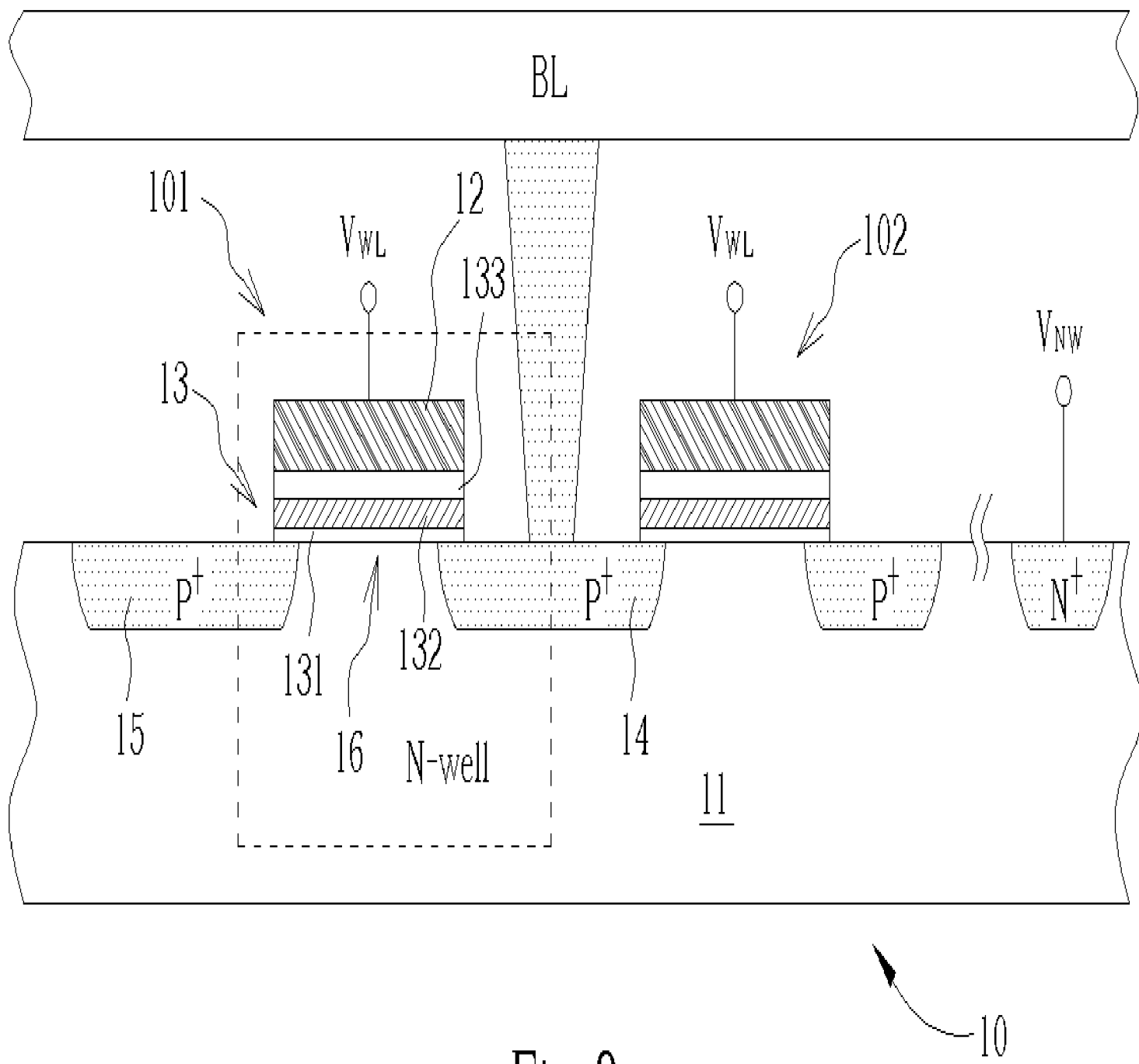


Fig. 2

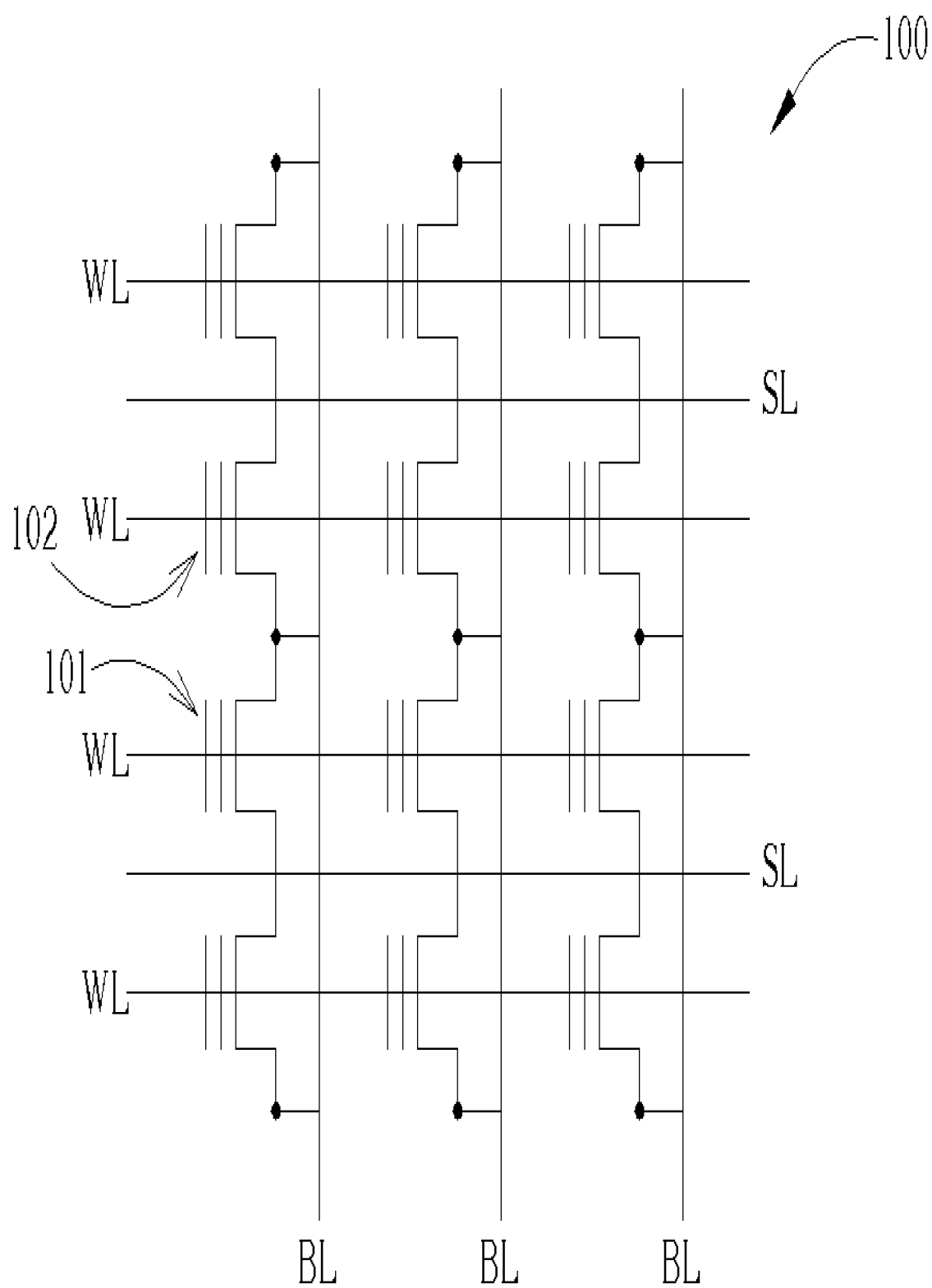


Fig. 3

PROGRAM OPERATION

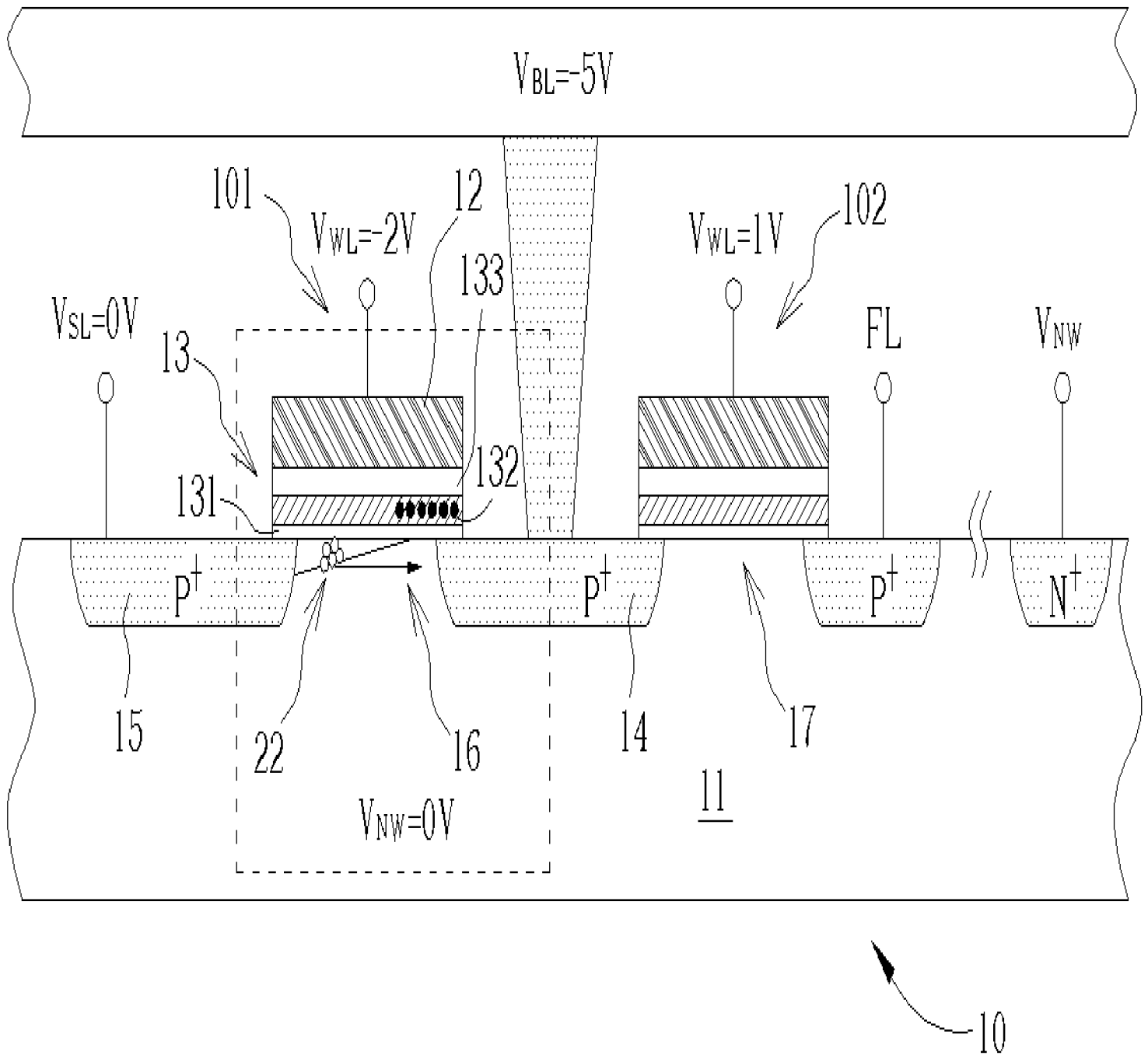


Fig. 4

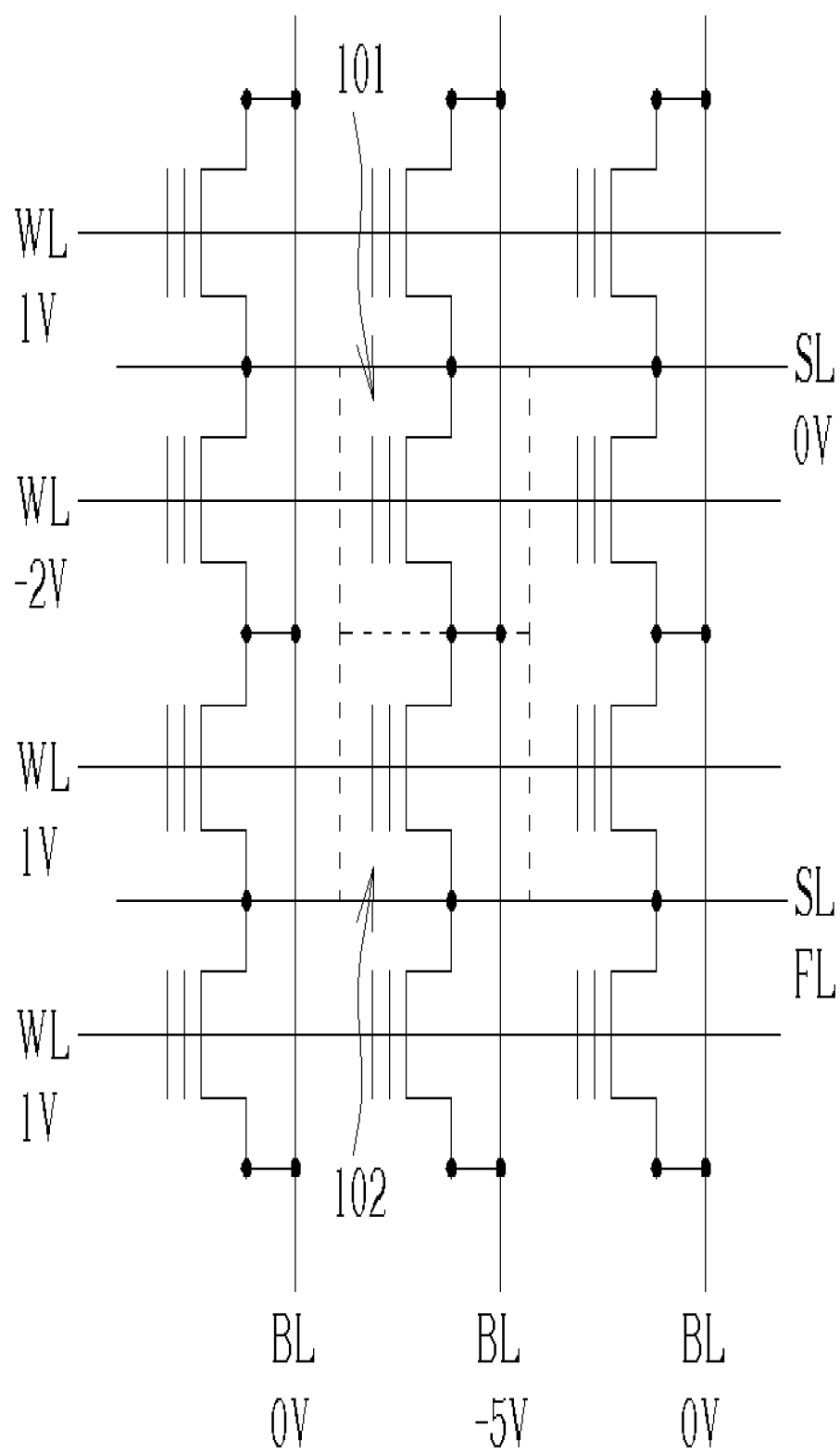


Fig. 5

READ OPERATION

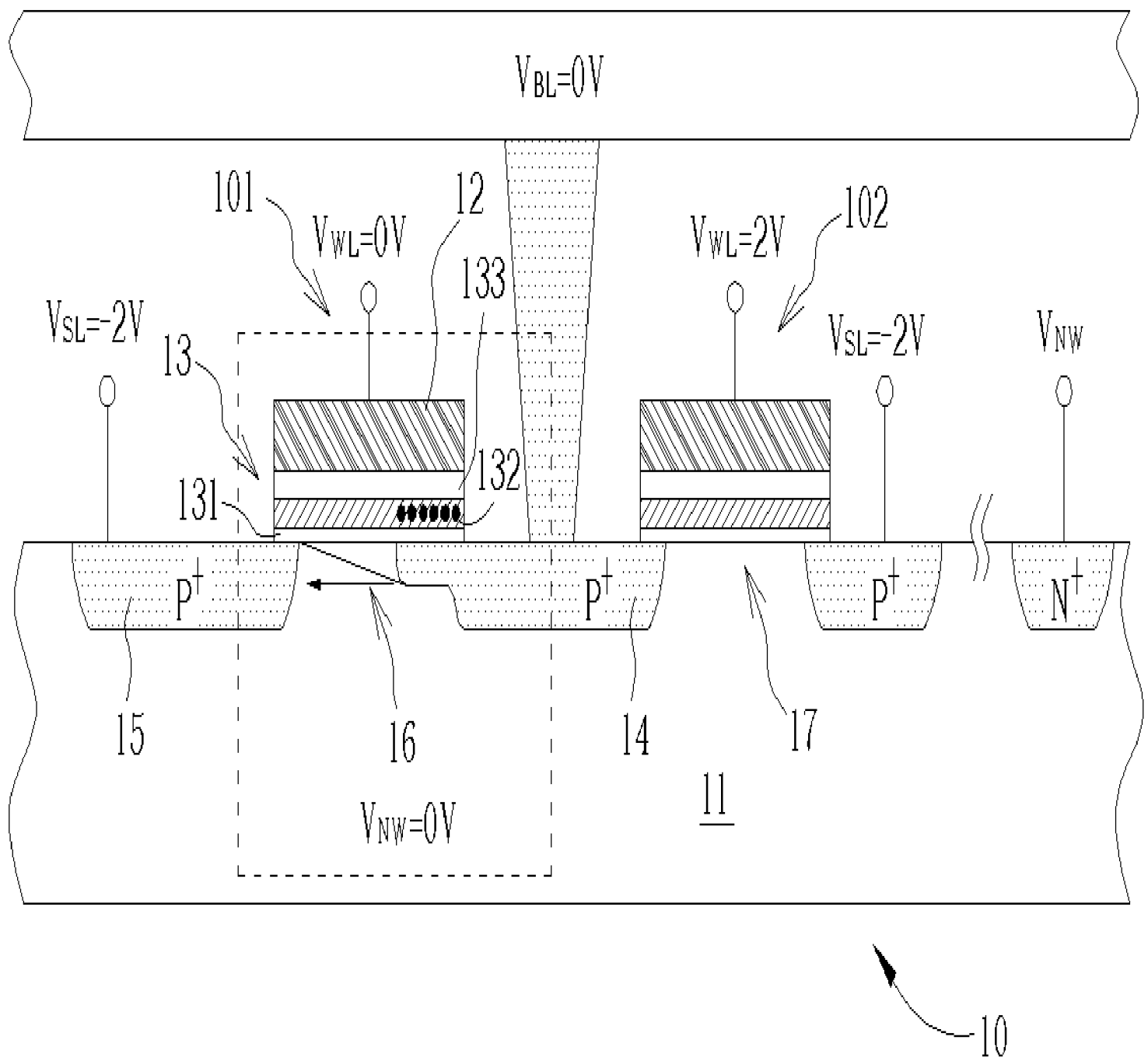


Fig. 6

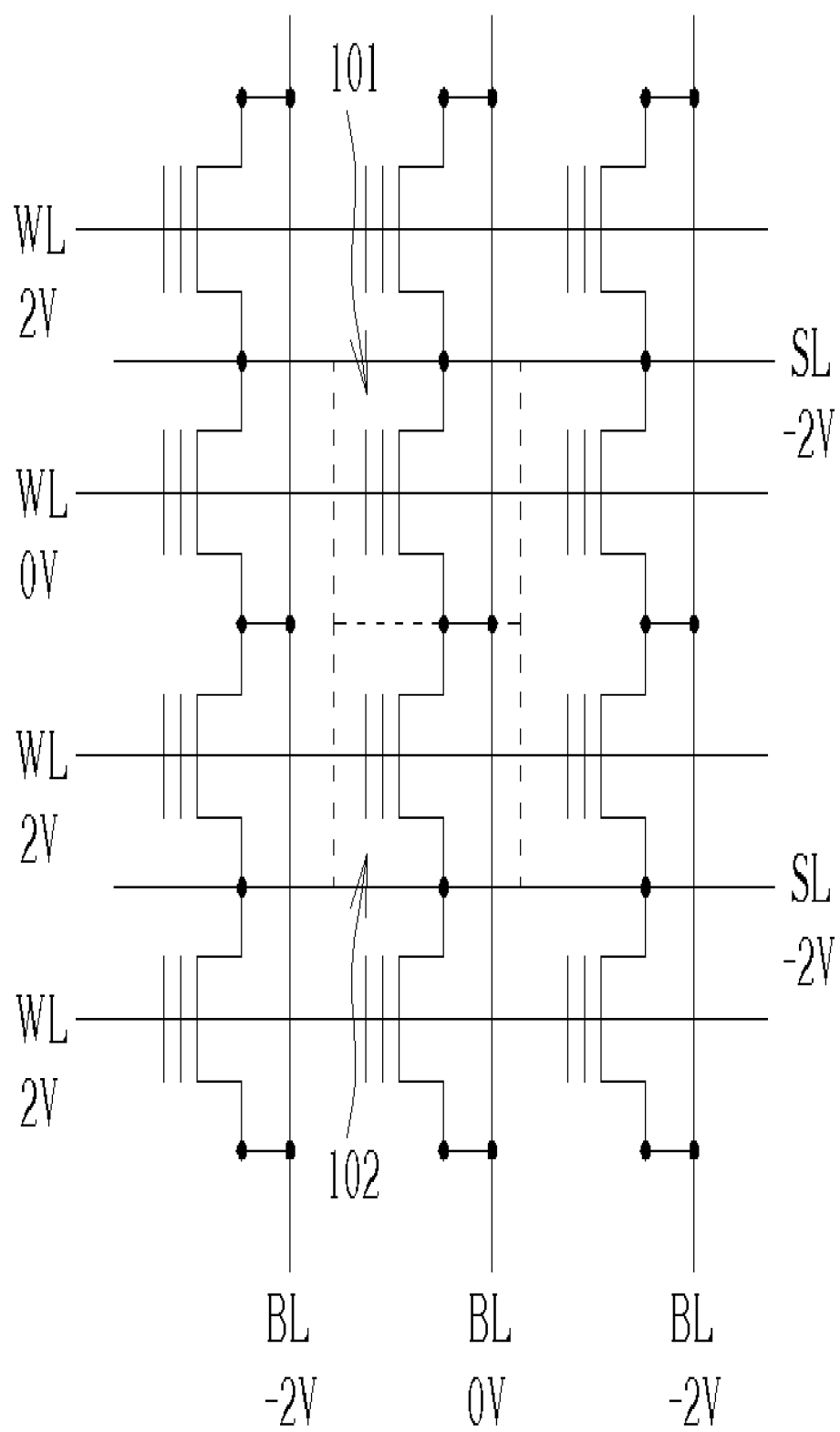


Fig. 7

OPERATION VOLTAGE TABLE

	Selected BL			Un-Selected BL			
	V_{WL}	V_{BL}	V_{SL}	V_{WL}	V_{BL}	V_{SL}	V_{NW}
PROGRAM	-2V	-5V	0V	1V	0V	FL or 0V	0V
ERASE	-6V	0V	0V	0V	0V	0V	6V
READ	0V	0V	-2V	2V	-2V	-2V	0V

Fig. 8

PROGRAM OPERATION

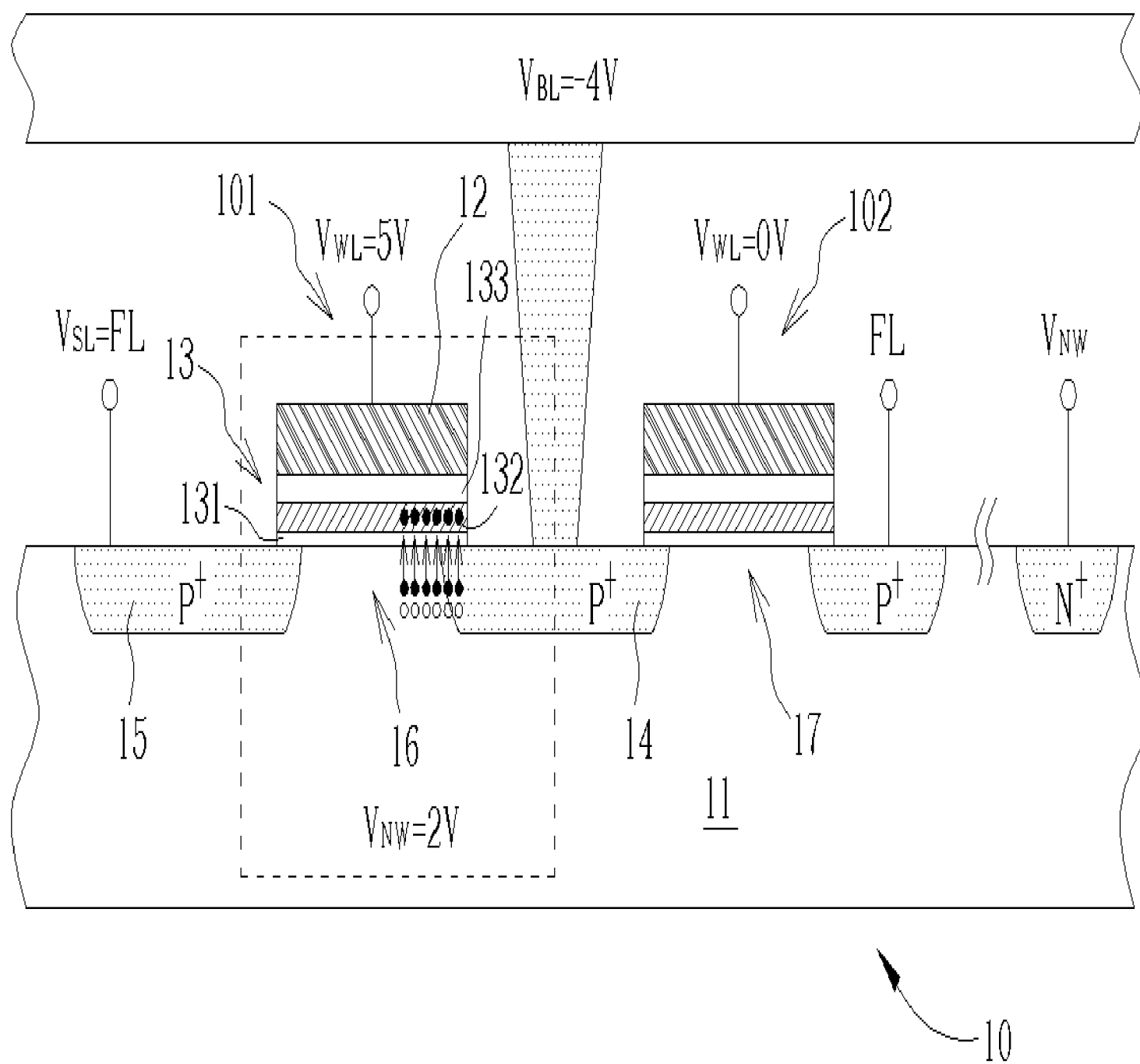


Fig. 9

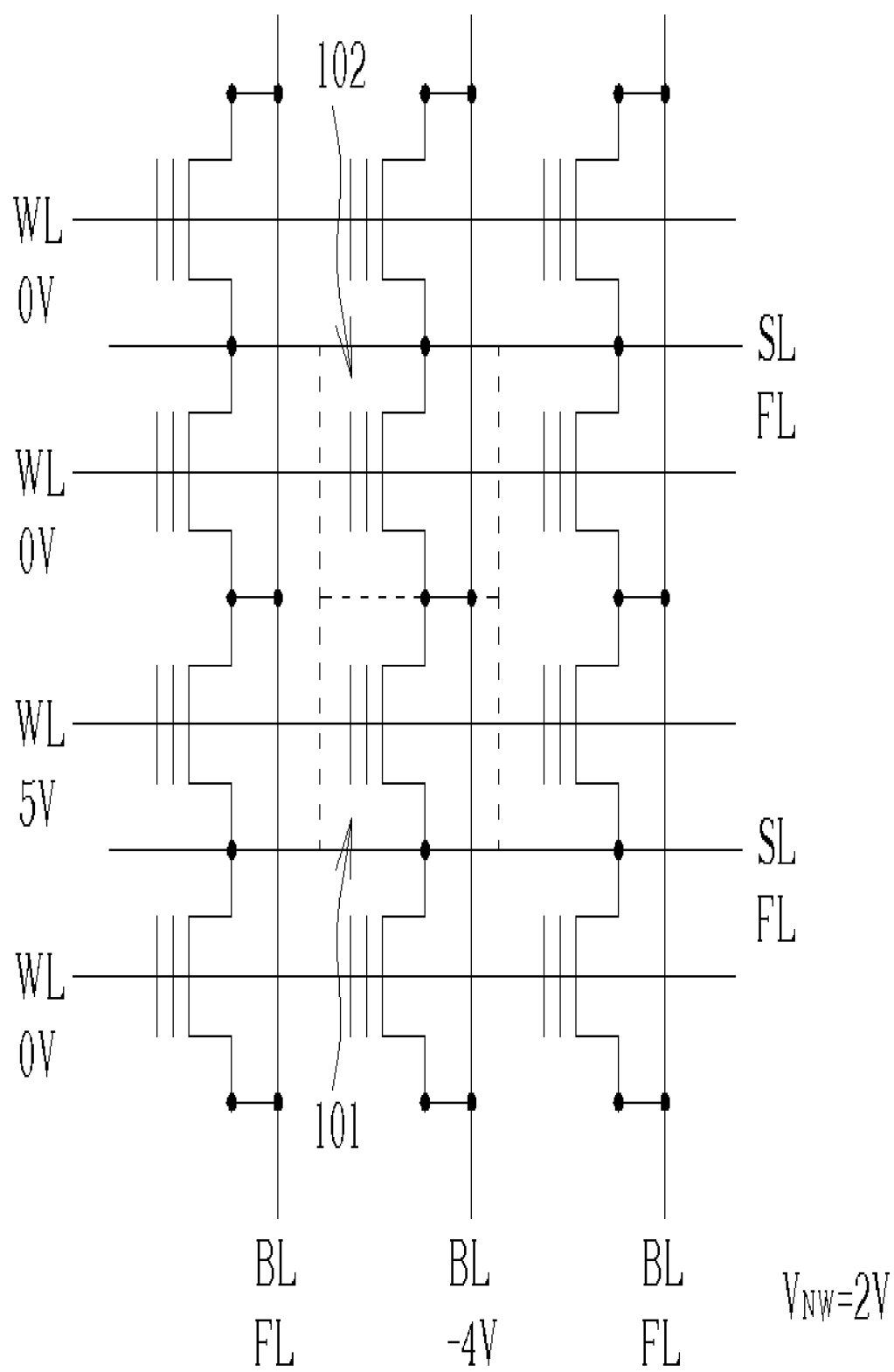


Fig. 10

READ OPERATION

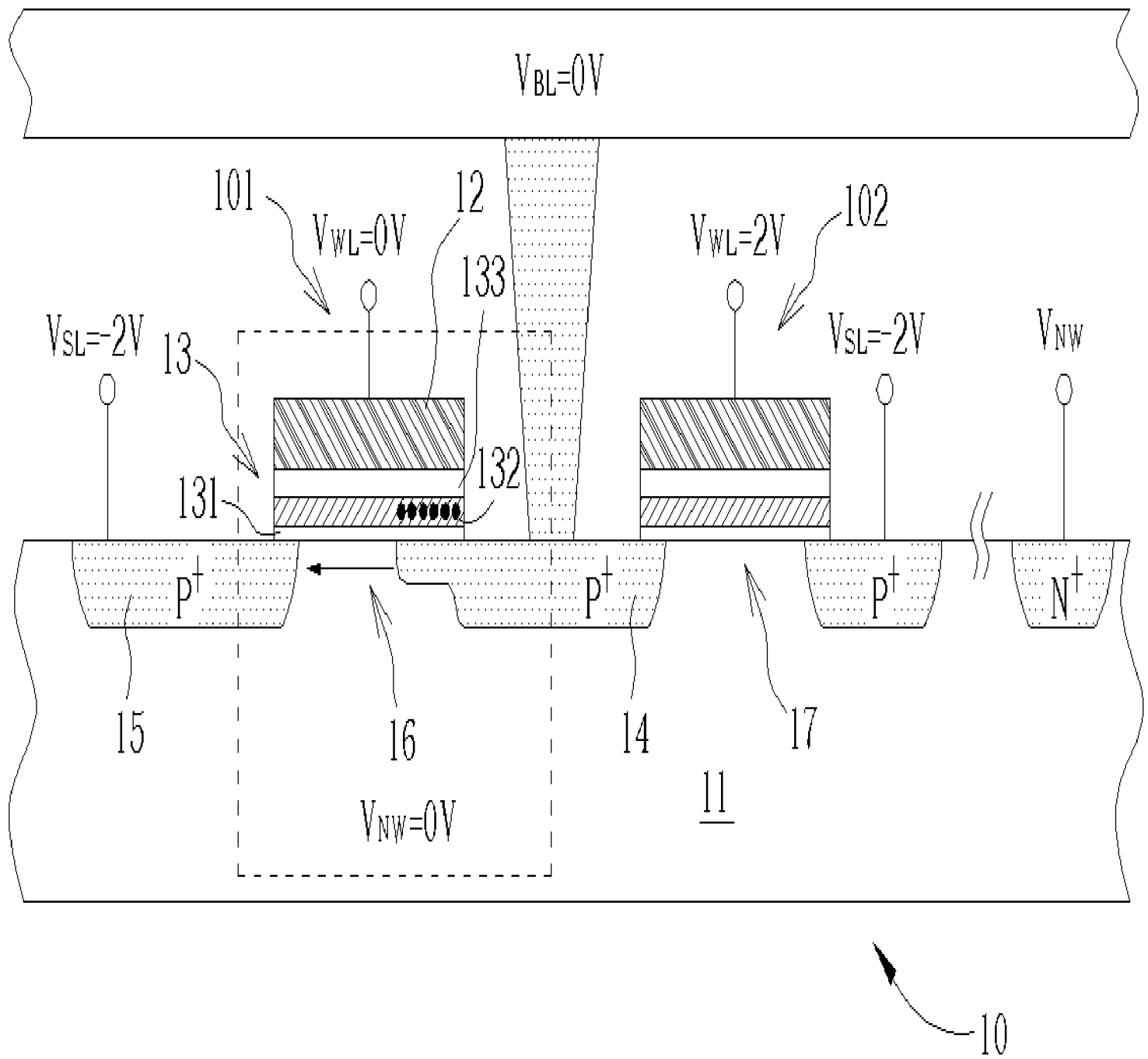


Fig. 11

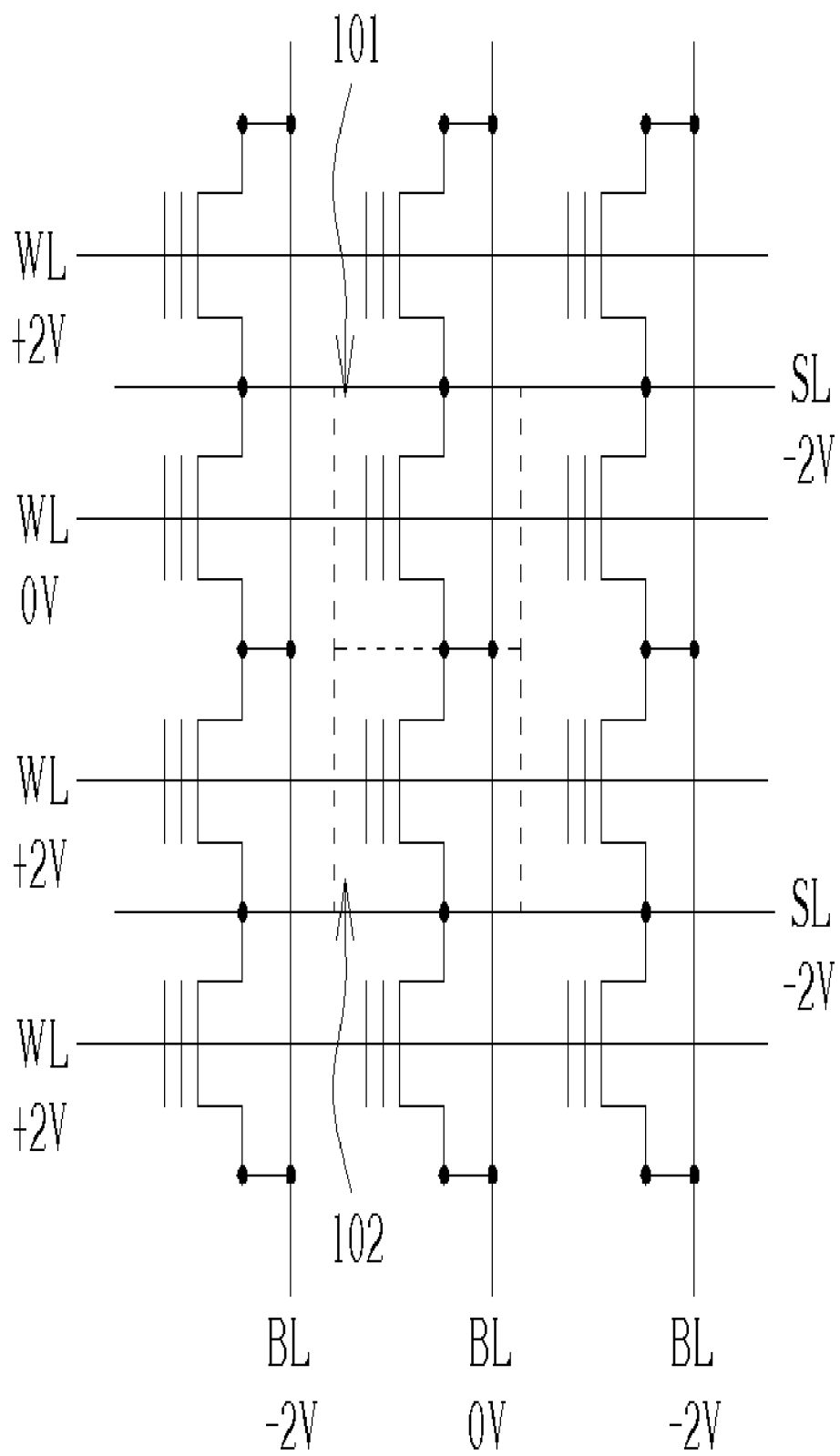


Fig. 12

OPERATION VOLTAGE TABLE

	Selected BL			Un-Selected BL			
	V_{WL}	V_{BL}	V_{SL}	V_{WL}	V_{BL}	V_{SL}	V_{NW}
PROGRAM	5V	-4V	FL	0V	FL	FL	2V
ERASE	-6V	0V	0V	0V	0V	0V	6V
READ	0V	0V	-2V	2V	-2V	-2V	0V

Fig. 13

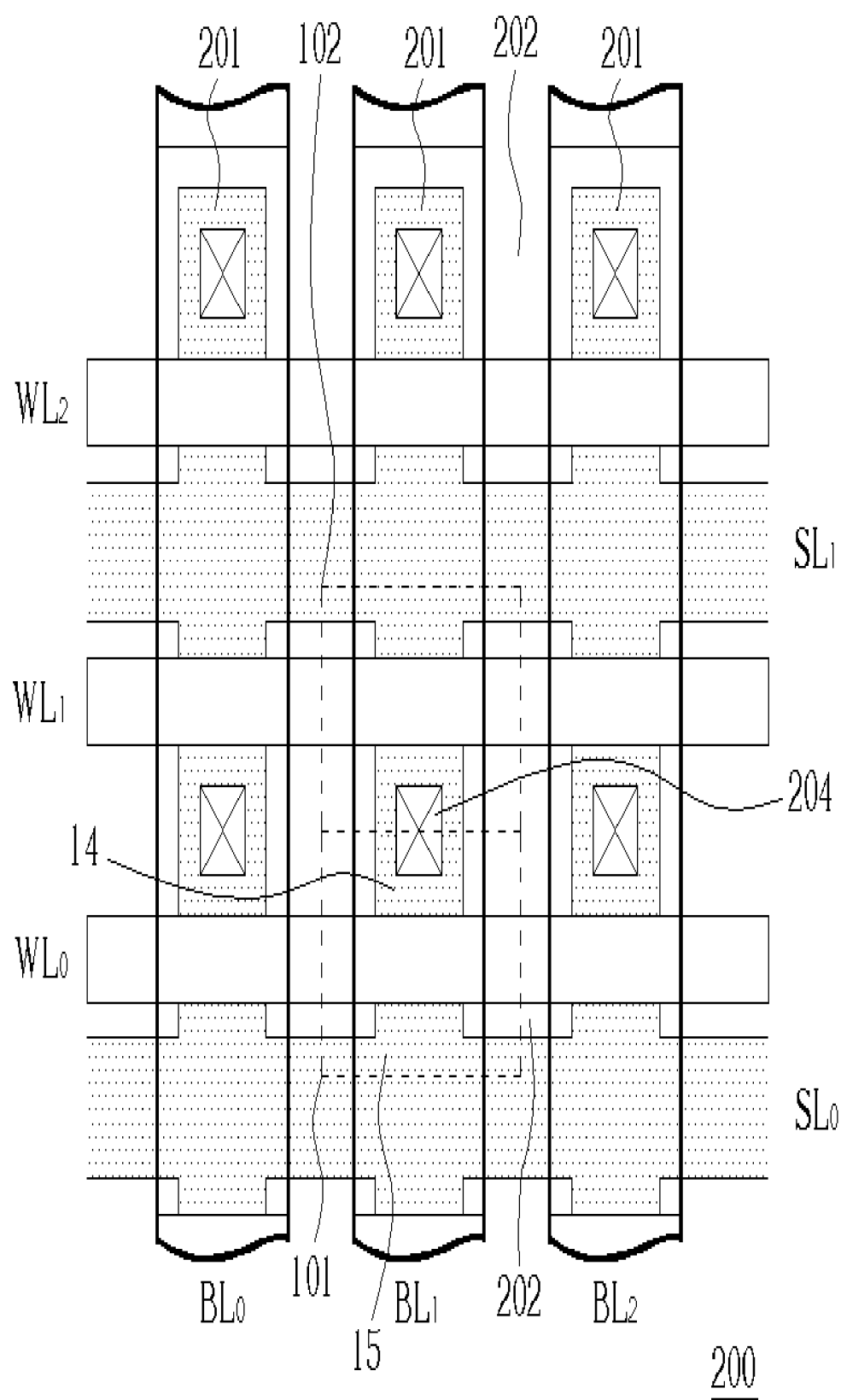


Fig. 14

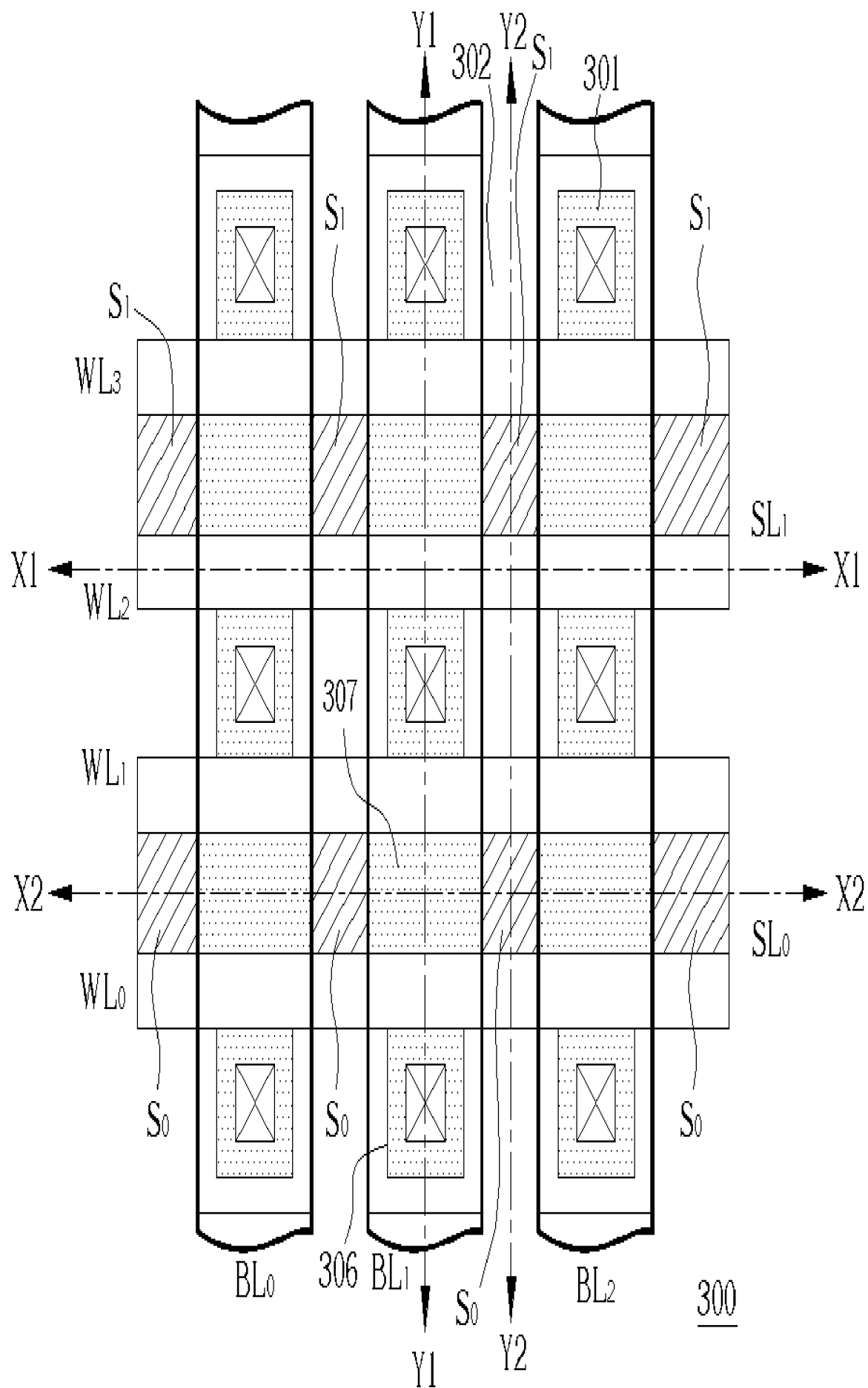


Fig. 15

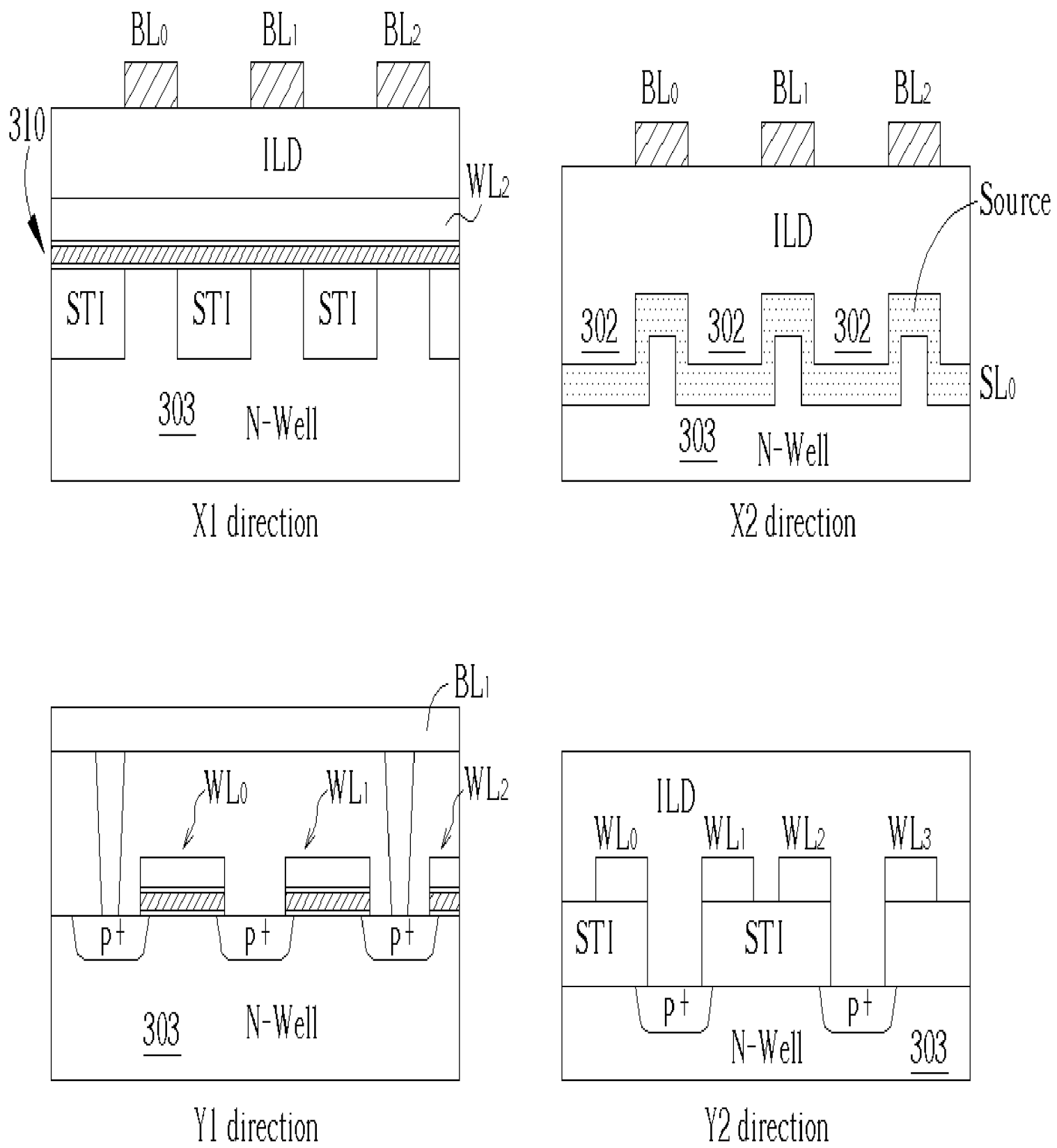


Fig. 16

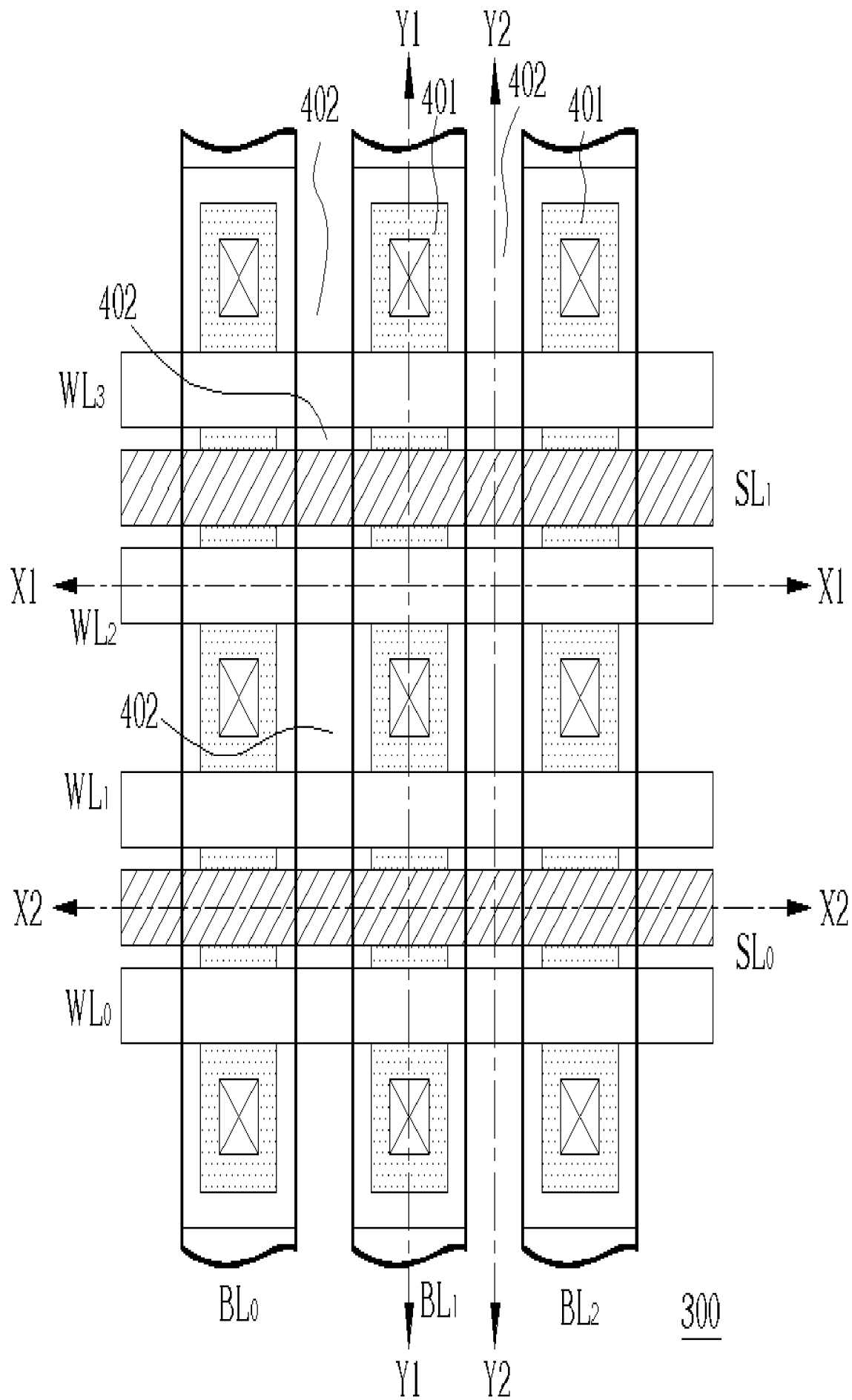
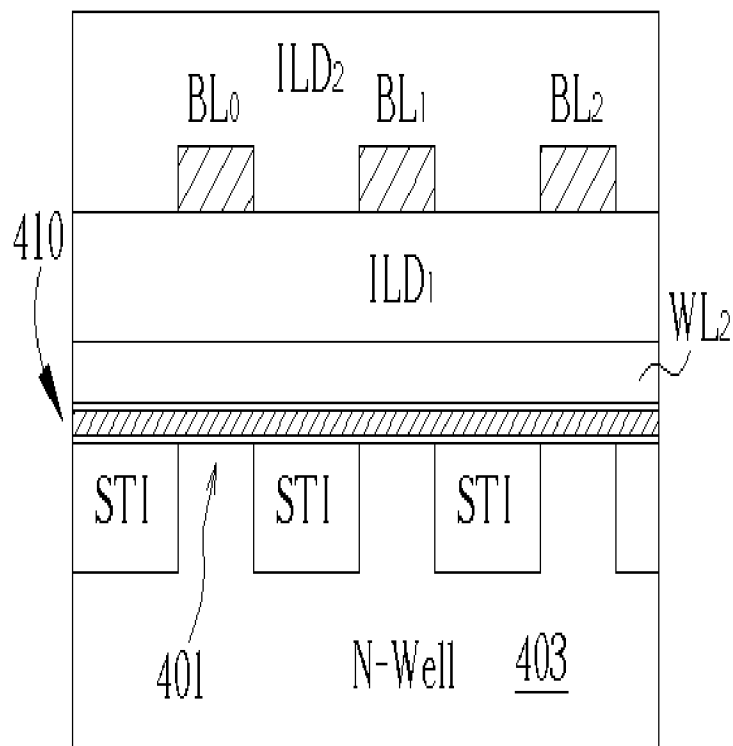
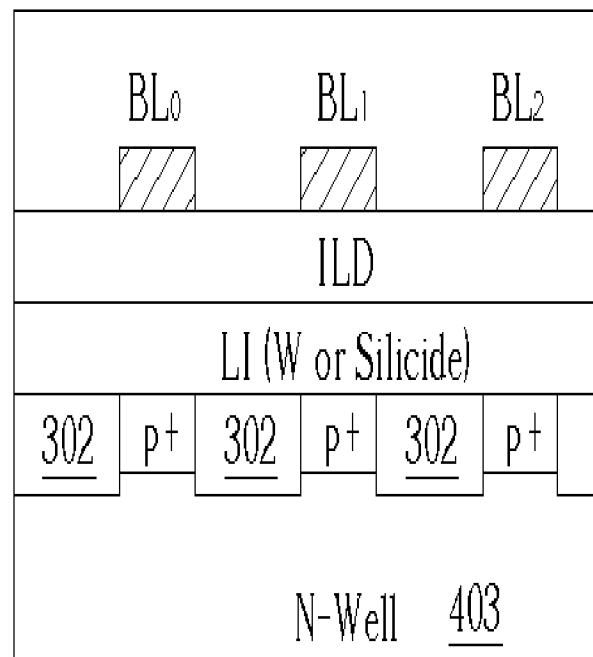


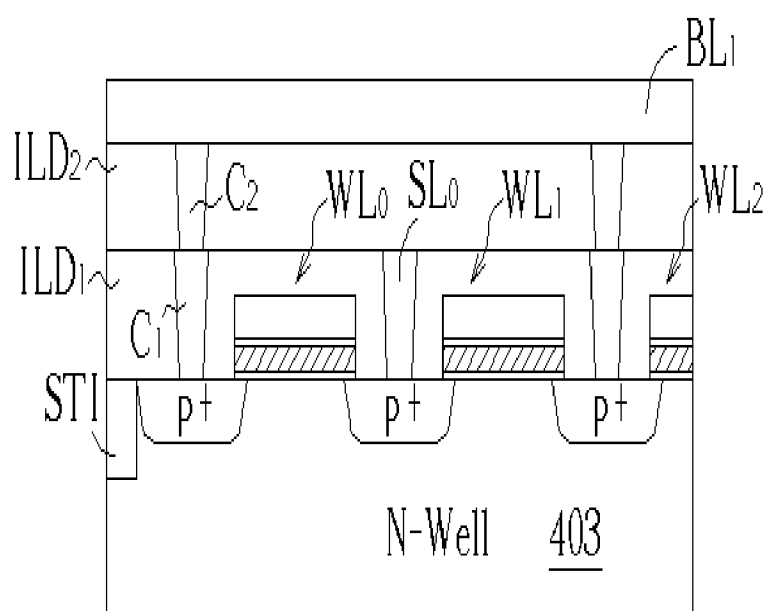
Fig. 17



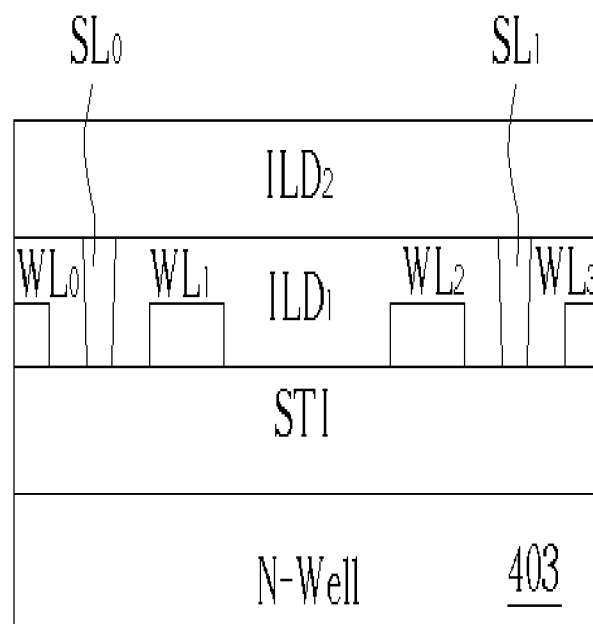
X1 direction



X2 direction



Y1 direction



Y2 direction

Fig. 18

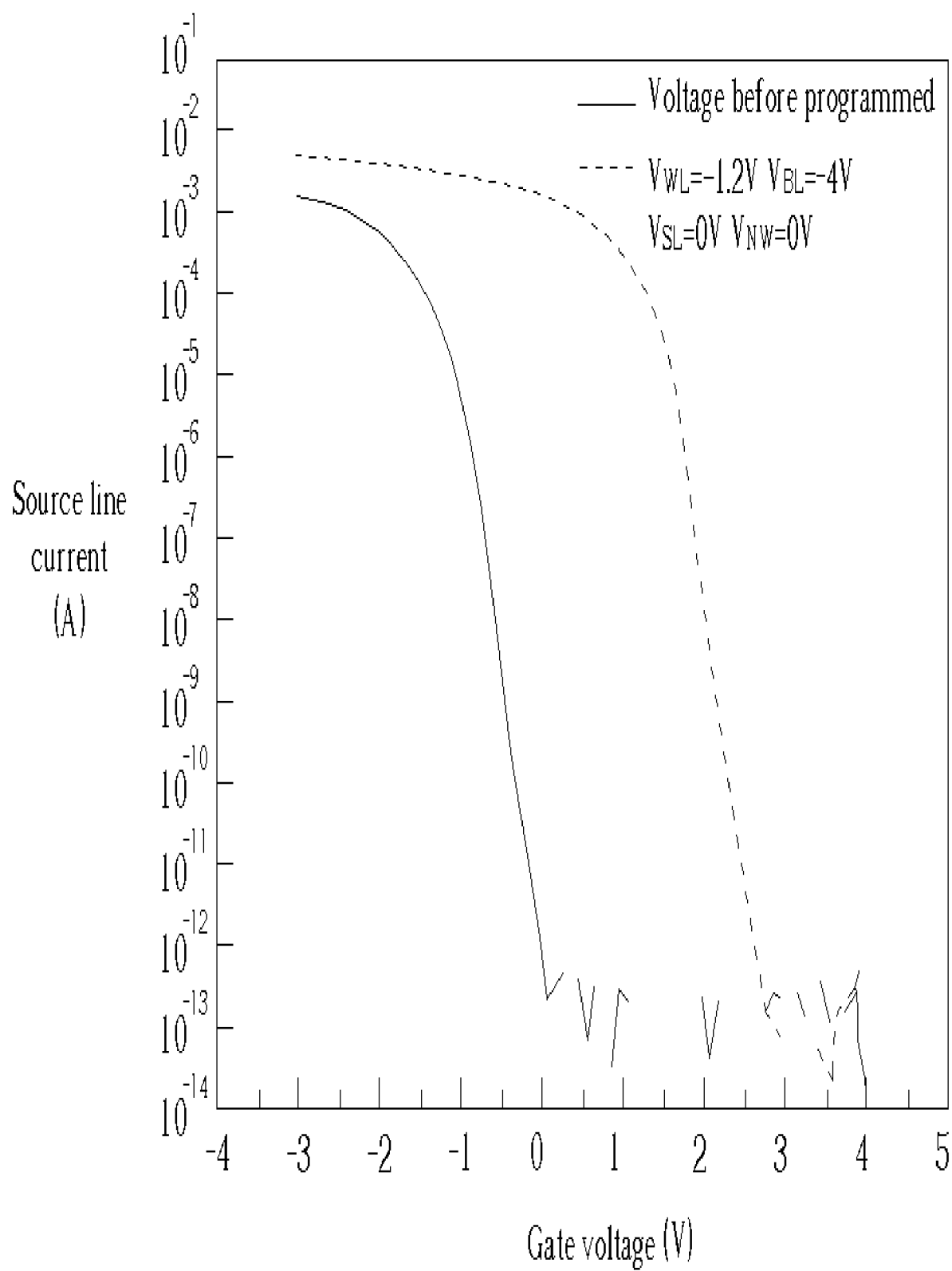


Fig. 19

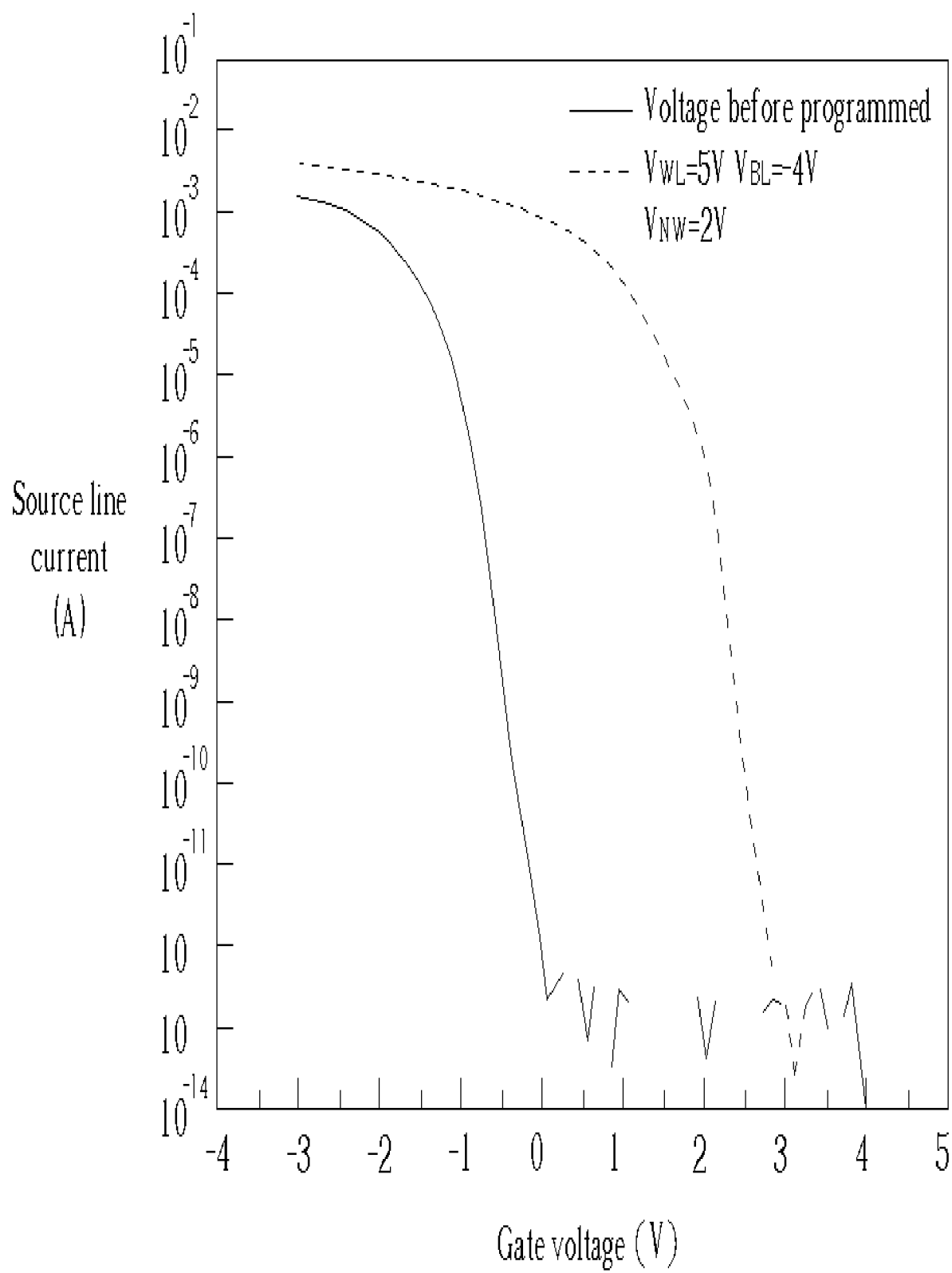


Fig. 20